| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ReferenceQueue.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/lang/ref/Reference.html)   [**NEXT CLASS**](http://docs.google.com/java/lang/ref/SoftReference.html) | [**FRAMES**](http://docs.google.com/index.html?java/lang/ref/ReferenceQueue.html)    [**NO FRAMES**](http://docs.google.com/ReferenceQueue.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **java.lang.ref**

Class ReferenceQueue<T>

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.lang.ref.ReferenceQueue<T>**

public class **ReferenceQueue<T>**extends [Object](http://docs.google.com/java/lang/Object.html)

Reference queues, to which registered reference objects are appended by the garbage collector after the appropriate reachability changes are detected.

**Since:** 1.2

| **Constructor Summary** | |
| --- | --- |
| [**ReferenceQueue**](http://docs.google.com/java/lang/ref/ReferenceQueue.html#ReferenceQueue())()            Constructs a new reference-object queue. |

| **Method Summary** | |
| --- | --- |
| [Reference](http://docs.google.com/java/lang/ref/Reference.html)<? extends [T](http://docs.google.com/java/lang/ref/ReferenceQueue.html)> | [**poll**](http://docs.google.com/java/lang/ref/ReferenceQueue.html#poll())()            Polls this queue to see if a reference object is available. |
| [Reference](http://docs.google.com/java/lang/ref/Reference.html)<? extends [T](http://docs.google.com/java/lang/ref/ReferenceQueue.html)> | [**remove**](http://docs.google.com/java/lang/ref/ReferenceQueue.html#remove())()            Removes the next reference object in this queue, blocking until one becomes available. |
| [Reference](http://docs.google.com/java/lang/ref/Reference.html)<? extends [T](http://docs.google.com/java/lang/ref/ReferenceQueue.html)> | [**remove**](http://docs.google.com/java/lang/ref/ReferenceQueue.html#remove(long))(long timeout)            Removes the next reference object in this queue, blocking until either one becomes available or the given timeout period expires. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Constructor Detail** |
| --- |

### ReferenceQueue

public **ReferenceQueue**()

Constructs a new reference-object queue.

| **Method Detail** |
| --- |

### poll

public [Reference](http://docs.google.com/java/lang/ref/Reference.html)<? extends [T](http://docs.google.com/java/lang/ref/ReferenceQueue.html)> **poll**()

Polls this queue to see if a reference object is available. If one is available without further delay then it is removed from the queue and returned. Otherwise this method immediately returns null.

**Returns:**A reference object, if one was immediately available, otherwise null

### remove

public [Reference](http://docs.google.com/java/lang/ref/Reference.html)<? extends [T](http://docs.google.com/java/lang/ref/ReferenceQueue.html)> **remove**(long timeout)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [InterruptedException](http://docs.google.com/java/lang/InterruptedException.html)

Removes the next reference object in this queue, blocking until either one becomes available or the given timeout period expires.

This method does not offer real-time guarantees: It schedules the timeout as if by invoking the [Object.wait(long)](http://docs.google.com/java/lang/Object.html#wait(long)) method.

**Parameters:**timeout - If positive, block for up to timeout milliseconds while waiting for a reference to be added to this queue. If zero, block indefinitely. **Returns:**A reference object, if one was available within the specified timeout period, otherwise null **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the value of the timeout argument is negative [InterruptedException](http://docs.google.com/java/lang/InterruptedException.html) - If the timeout wait is interrupted

### remove

public [Reference](http://docs.google.com/java/lang/ref/Reference.html)<? extends [T](http://docs.google.com/java/lang/ref/ReferenceQueue.html)> **remove**()  
 throws [InterruptedException](http://docs.google.com/java/lang/InterruptedException.html)

Removes the next reference object in this queue, blocking until one becomes available.

**Returns:**A reference object, blocking until one becomes available **Throws:** [InterruptedException](http://docs.google.com/java/lang/InterruptedException.html) - If the wait is interrupted

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ReferenceQueue.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
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| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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